Scenario - Nominal Science Data Production Subsystems Involved: PLS, DPS, DSS, INS

Operations

ECS

Plan status and Processing monitored

by Production Monitor update

(see Planning scenarios)

Planning is notified of data availability

Planning submits data processing request (DPR) if all input data is available

Processing confirms to Planning that the DPR is valid

Processing requests data staging of the L0 data from Ingest

Processing notifies Planning of the staging request

Operations

Ingest and Science Data Server faults handled by Archive Manager

(see Data Archival/ Data Distribution scenarios)

Processing monitoredby Production Monitor

(see Processing scenarios)

ECS

L0 retrieved from and staged to a disk accessible by the PGE that needs it

Request data staging of non L0 data

Processing notifies planning of the staging request

Non-L0 data retrieved from Data Server and staged to a disk accessible by the PGE that needs it PGE queued

Processing notifies planning of the start of production

update

6-22

Operations

ECS

PGE runs to completion

Processing requests de-staging of product output, i.e., transfer to Data Server

Processing notifies Planning of the de-staging request

Data insertion request to data storage

Data Server returns Archive notification

Science Data Server faults handled by Archive Manager

(see Data Archival/ Data Distribution scenarios)

Operations

ECS

SCF

Processing and Plan status views updated



Processing status is updated against the original Production Plan

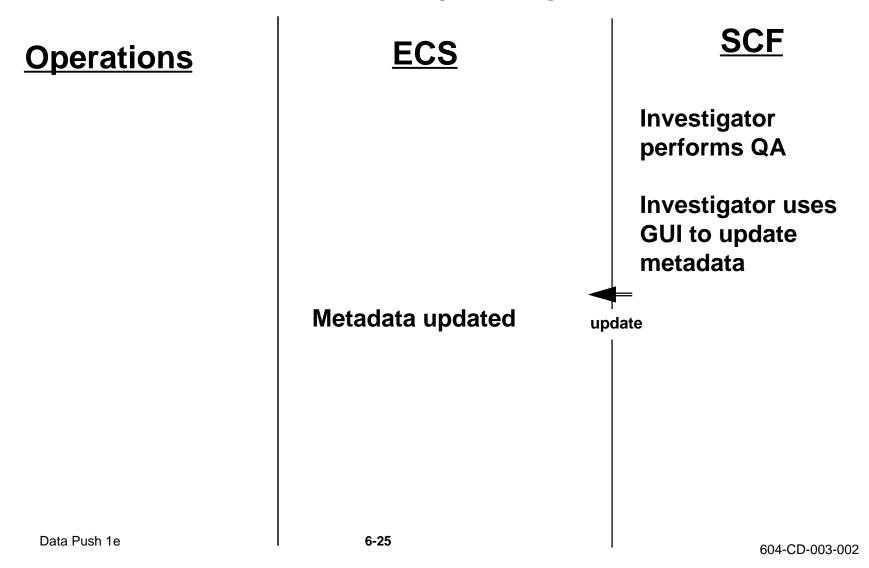
(Product Ouput has Subscription for QA)

QA data staged and email message is sent notification to investigator notifying of QA data

(Note: QA data can also be pushed)

Investigator uses ftp-get to acquire the Product Output

availability



Scenario - Missing Ancillary Data

Operations

ECS

The CERES Production

Monitor notes a deviation

from the plan - a group of

DPRs have not been plan status

processed when they

were planned.

Displays Plan status

The CERES Production
Monitor examines Data
Availability status for
DPRs, learns that these
are several chains of
DPRs awaiting a single
ancillary data file of NMC
data.

Displays Data Availability status of DPRs

DPR status

Scenario - Missing Ancillary Data (cont.)

Operations

ECS

The CERES Production
Monitor checks with
GSFC and learns that the
reformatting to HDF
failed because the
corresponding NMC file
was empty. GSFC has no
estimate on when this file
will be available.

The CERES Production
Monitor cancels the
Waiting DPRs and notes
the reason.

Removes waiting DPRs, updates plan status.

(Note: DPRs could be left until whenever data finally arrives)

Scenario - Missing Ancillary Data (cont.)

Operations

Two days later, the Production Planner learns that the tardy ancillary data file is finally available. The Production Planner places Processing Requests (PR) for the highest level products in the canceled DPR chains

The Production Planner creates a plan for the next day's product generation.

ECS

PRs entered in Planning Data Base.

Planner creates candidate plans

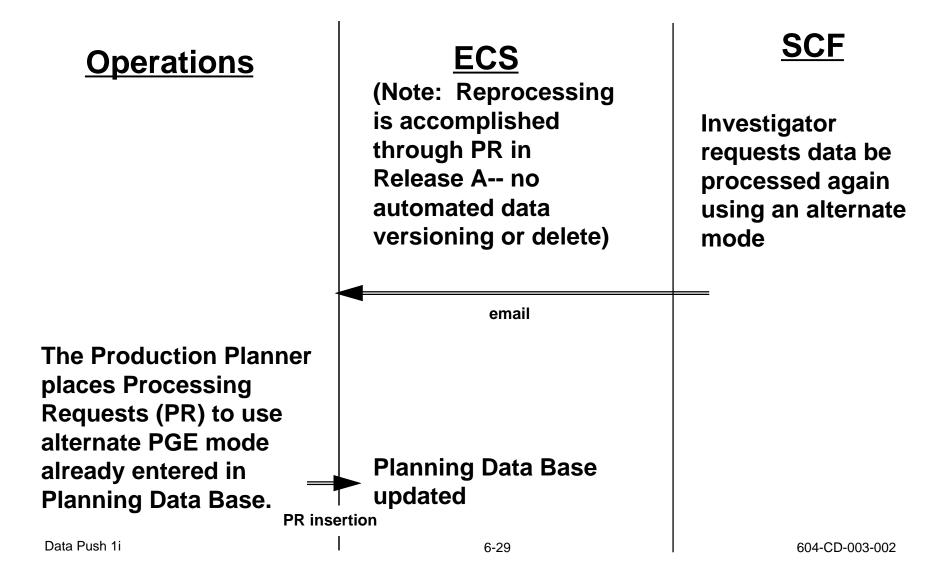
Plan activated for following day

Scenario proceeds as for nominal processing

PR insertion

Planning

Scenario - "Reprocessing" Request



Scenario - "Reprocessing" Request (cont.)

Operations

ECS

The Archive Manager verifies that the established QA data PR insertion subscriptions includes products generated by the alternate PGE mode.

Science Data Server Subscriptions are displayed.

The Production Planner creates a plan for the next day's product generation.

Planner creates candidate plans

Plan activated for following day

Scenario proceeds as for nominal processing